

Amendments to the Claims

This listing of claims will replace all prior listings of claims in the application.

Listing of Claims

1.-5. (Canceled)

6. (Currently Amended) The apparatus for producing the mold according to ~~claim 1~~Claim 9, further comprising a cast mold model working machine for producing a cast mold model used for producing said mold material,

wherein an estimated amount of deformation at the time of casting of said mold material is stored in said storage means, data including this estimated amount is sent to said cast mold model working machine, and said cast mold model is produced by said cast mold model working machine based on this data.

7. (Original) The apparatus for producing the mold according to claim 6,

wherein said estimated amount stored in said storage unit is resettable based on said measurement data.

8. (Currently Amended) The apparatus for producing the mold according to ~~claim 1~~Claim 9,

wherein said mold working machine comprises a numerically controlled machine tool.

9. (New) An apparatus for producing a mold, comprising:

a measuring device for measuring a shape of a mold material produced by casting;

a computer into which measurement data from the measuring device is inputted; and

a mold working machine controlled by the computer to work the mold material and produce a mold from the mold material,

wherein the computer comprises storage means for storing the measurement data, mold design data and working capability of the mold working machine, computing means for computing data for making said mold working machine work a reference plane and thereafter computes data for making the mold working machine work the product forming plane with the worked reference plane as a supporting surface of the mold material in the mold working machine to reduce a work amount of the product forming plane of the mold material based on the measurement data and mold design data, display means for displaying an envelope model of the mold material generated based on the mold design data and operation means for bringing the envelope model into close proximity of the mold model by moving the envelope model in directions of three axes orthogonal to one another and rotating it around the three axes, and by its being in close proximity thereof, the computation to reduce the work amount of the product forming plane is performed in the computing means, bringing the envelope model into close proximity of the mold model means placing all parts of said mold model inside said envelope model and bringing a product forming plane of said envelope into close proximity of the product forming plane of the mold model, and after computing what portions of the product forming plane are worked and how many times they are worked, based on the working capability data, the computing means makes the mold working machine work the product forming plane.